

SOV/136-59-5-2/21

AUTHORS: Gratsershteyn, I.M., and Nezhinskaya, L.A.

TITLE: Determination of Production Costs from Complex Raw Materials (On the Example of Zinc Works) (Ob opredelenii sebestoimosti produktsii iz kompleksnogo syr'ya (na primere tsinkovykh zavodov))

PERIODICAL: Tsvetnyye metally, 1959, Nr 5, pp 10-15 (USSR)

ABSTRACT: The problem of costing products obtained from complex ores is important for stimulating their better utilization. Various organisations were and are active in this field: Giprotsvetmet, Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Non-Ferrous Metals Institute), TsNIGRI, and others. The authors list the main methods and discuss their advantages and disadvantages. For their discussions they use materials consumption and cost data for a zinc-cadmium-copper-sulphur-indium raw material (Tables 1, 2 and 3). They propose a simple method by which the cost of each recovered component can be found, and production costs are related to the finished product with allowance for its quality. The method depends for its success on the

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Determination of Production Costs from Complex Raw Materials (On
the Example of Zinc Works)

correct fixing of selling prices for the products.
Further contributions on this subject are invited by
the Editor.
There are 3 tables.

Card 2/2

GONCHAROV, G.A.; GRATSEERSHTEYN, I.M.

Increasing the over-all utilization of raw materials in the
Ural Mountains copper smelting industry. Izv. vys. ucheb. zav.;
tsvet. met. 3 no.3:155-160 '60. (MIRA 14:3)

1. Krasnoyarskiy institut tsvetnykh metallov, Kafedra organizatsii
i planirovaniya proizvodstva.
(Ural Mountains—Copper industry)

GRATSEKSHTEYN, Izrail' Markovich; NEZHINSKAYA, Lyudmila Aleksandrovna;
LOSKUTOV, F.M., prof., doktor, retsenzent; ARKHANGEL'SKAYA,
M.S., red.izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Complete use of complex metal ores] Kompleksnoe ispol'zovanie
polimetallicheseskogo syr'ia. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, 1961. 123 p.

(MIRA 14:12)

(Nonferrous metals--Metallurgy)

GRATSEERSHTEYN, Israil' Markovich

Organizatsiya i planirovaniye predpriyatiy svetnoy metallurgii
[by] i. m. Gratsershteyn [1] Moskva, Metallurgii, 1961.
MALINOVA, A.D.
560 p. izbl's. 27 cm.

GRATSEVSHTEYN, Izrail' Markovich; MALINOVA, Revekka Davydovna; MITT, G.Ya..
red.; KHUTORSKAYA, Ye.S., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Organization and planning in enterprises of nonferrous metallurgy]
Organizatsiia i planirovanie predpriistii tsvetnoi metallurgii.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1961. 599 p. (MIRA 14:3)
(Nonferrous metals--Metallurgy) (Industrial management)

GRATSERSHTEYN, Izrail' Markovich; MALINOVA, Revekka Davydovna;
GOLYNSKIY, M.S., red.; MASHKOV, A.N., red.; KOVALEVSKIY,
M.A., red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Organization and planning in nonferrous metal industries] Or-
ganizatsiia i planirovanie predpriatii tsvetnoi metallurgii.
Izd.2., perer. i dop. Moskva, Metallurgizdat, 1962. 501 p.
(MIRA 15:7)

(Nonferrous metal industries)
(Industrial management)

GRATSEERSHTEY, I.M.

Methods of production cost determination in the complete utilization
of raw materials for nonferrous metallurgy. Izv.vys.ucheb.zav.;
tsvet.met. no.1:150-157 '62. (MIRA 15:2)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra
organizatsii proizvodstva.
(Nonferrous metal industries--Costs)

GRATSEKSHTEYN, I.M.; GONCHAROV, G.A.

Time-consuming operations in nonferrous metal industries. Izv.vys.
ucheb.zav.; tsvet.met. 5 no.3:159-162 '62. (MIRA 15:11)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra organizatsii
proizvodstva.

(Nonferrous metal industries—Labor productivity)

GRATSERSHTEYN, Izrail' Markovich; GONCHAROV, Georgiy Aleksandrovich;
DRIZE, I.D., red.; KOVALEVSKIY, M.A., red. izd-va; KLEYNMAN,
M.R., tekhn. red.

[Potentialities for increasing labor productivity in nonferrous metallurgy] Rezervy povysheniia proizvoditel'nosti truda v tsvetnoi metallurgii; na primere medeplavil'nykh predpriiatiĭ Urala. Moskva, Metallurgizdat, 1963. 152 p.

(MIRA 16:6)

(Nonferrous metal industries)

GRATSIKOV, I.M.

Improving the management organization of nonferrous metal enterprises. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:162-167 '65. (MIRA 18:9)

1. Kafedra ekonomiki i organizatsii proizvodstva Moskovskogo instituta stali i splavov.

GRATSERSHTEYN, I.M.

Organization business accounting at nonferrous metallurgical enterprises. TSvet. met. 38 no.5:2-5 My '65. (MIRA 18:6)

KRYSENKO, N.S.; POZNYAKOV, V.Ya.; GAZARYAN, L.M.; ZADOV, Ye.B.;
KADYRZHANOV, K.K.; KUZ'MIN, A.V.; TROITSKIY, A.V.; LEZGINTSEV, G.M.;
MITROFANOV, S.I.; SOLOV'YEV, V.Ya.; SOBOL', S.I.; MYAGKOVA, T.M.;
GAYLIT, A.A.; GENIN, N.N.; GRATSEERSHTEYN, I.M.; SKORNYAKOV, Yu.T.,
referent

Fourth plenum of the central administration of the Scientific
Technological Society for Nonferrous Metallurgy. TSvet. met.
38 no.5:90 My '65. (MIRA 18:6)

1. Chlen TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva
tsvetnoy metallurgii i zavod "Ukrts'nk" (for Krysenko).
2. Chlen
TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva tsvetnoy
metallurgii i "Severonikel'" (for Poznyakov).
3. Institut metallur-
gii im. Baykova (for Gazaryan).
4. Predsedatel' soveta Nauchno-
tehnicheskogo obshchestva Kol'chuginskogo zavoda OTsM (for ZadoV).
5. Chlen TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva
tsvetnoy metallurgii, Sovet narodnogo khozyaystva Kazakhskoy SSR
(for Kadyrzhanov).
6. Predsedatel' gorno-geologicheskoy sekti
TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva tsvetnoy
metallurgii; Gosudarstvennyy komitet Soveta Ministrov RSFSR po
koordinatsii nauchno-issledovatel'skikh rabot (for Kuz'min).
7. Chlen TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva

(Continued on next card)

KRYSENKO, N.S.--- (continued) Card 2.

tsvetnoy metallurgii, Sovet narodnogo khozyaystva SSSR (for Troitskiy). 8. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii (for Lezgintsev). 9. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov (for Mitrofanov, Sobol', Genin). 10. Gosudarstvennyy nauchno-issledovatel'skiy i projektnyy institut splavov i obrabotki tsvetnykh metallov (for Sclov'yev). 11. Vsesoyuznyy nauchno-issledovatel'skiy i projektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (for Myagkova). 12. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii (for Gaylit).

GRATSEVSKAYA, M. M. 5
✓ 1231* (Russian.) An Experiment in the Use of Mechanized Cooling Beds in Structural Mills. Opyt osvoeniia mekhanizirovannykh kholodil'nikov na sortirovatnykh stanskakh. I. A. Lipovetskii, A. A. Nefedov, P. M. Gratsershtein, D. P. Lobkovskii, and V. A. Lunda. *Stal*, v. 16, no. 9, Sept. 1956, p. 798-802.
Improvements and design modifications of standard mechanized cooling beds operating in two structural mills.

KOTIK, P.L.; GOLUB', A.I.; GRATSEERSHTEYN, P.M.; LOBKOVSKIY, D.P.

Automatically controlled skip loaders. Ogneupory 25 no.10:448-452
'60. (MIRA 13:10)

1. Nikitovskiy dolomitnyy kombinat (for Kotik). 2. Ukrenergochermet
(for Golub', Gratsershteyn, Lobkovskiy).
(Dolomite) (Loading and unloading)
(Automatic control)

GRATSIANOV, A.A.; FOMIN, M.I.; POLIKARPOV, M.P. redaktor; PETROVSKAYA, Ye.
tekhnicheskiy redaktor.

[Bookkeeper's manual on payments to workmen and employees;
tabular aids for the computation of the accounts of workmen
and employees] Spravochnik bukhgaltera po raschetam s rabochimi
i sluzhashchimi; vspomogatel'nye tablitsy po raschetam s
rabochimi i sluzhashchimi. Moskva, Izd-vo Ministerstva Kommu-
nal'nogo khoziaistva RSFSR, 1955. 107 p. (MLRA 8:7)
(Wages--Tables, etc.)

GRATSIANOV, Aleksandr Aleksandrovich

[Bookkeeper's manual for computing wages of workers and employees;
main principles of computing wages of workers and employees] Spravochnik
bukhgaltera po raschetam s rabochimi i sluzhashchimi; osnovnye
polozheniya o poryadke raschetov s rabochimi i sluzhashchimi. Moskva,
Ministerstvo kommunal'nogo khoziaistva, 1955. 163 p. (MLRA 9:12)
(Wages)

GRATSIANOV, A.N. [deceased]

Water treatment in liqueur and vodka plants. Spirt.prom.22 no.1:
19-21 '56. (MIRA 9:7)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut spirtevoy promyshlennosti.
(Water--Purification) (Liquor industry)

GRATSIANOV, D.A., kandidat meditsinskikh nauk, (Tomsk)

~~GRATSIANOV, D.A., kandidat meditsinskikh nauk, (Tomsk)~~

Clinical and anatomical characteristics of kidney lesions in
rheumatism. Klin. med., 33 no.10:40-48 0 '55. (MLRA 9:2)

1. Iz kafedry patologicheskoy anatomii (zav.--prof. I.V. Toroptsev)
Tomskogo meditsinskogo instituta imeni V.H. Molotova.

(RHEUMATISM, manifestations
kidneys, clin.-anat. aspects)

(KIDNEYS, pathology
in rheum. clin. anat. aspects)

GRATSIANOV, P.V.

Bibliography of individual articles, monographs, and other materials published by the Scientific Research Institute of Geophysical Prospecting Methods during 1945-1954. Prikl.geofiz. no.12:15-30 '55. (MLRA 8:3)
(Bibliography--Prospecting--Geophysical methods)

SOV /112-57-5-10703

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 161 (USSR)

AUTHOR: Gratsianov, P. V.

TITLE: Bibliographic List of Monographs and Articles Published by NIIGR Over the Period From the Second Half of 1954 to 1955 (Bibliograficheskiy perechen' monografiy i statey, opublikovannykh NIIGR za vremya so II polugodiya 1954 g. po 1955 g.)

PERIODICAL: Prikl. geofizika, Nr 15, 1956, pp 185-189

ABSTRACT: Bibliographic entry.

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Gratsianov, Yu. A.

137-1958-2-2493

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 2, p 44 (USSR)

AUTHORS: Gratsianov, Yu. A., Chernobyl'skiy, I. G.

TITLE: On the Use of Vibration on a Crystallizing Ingot (K voprosu o primenenii vibratsii k kristallizuyushchemusya slitku)

PERIODICAL: Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, 1956, Nr 15, pp 164-218

ABSTRACT: A short survey is given of earlier work on the vibration of solidifying alloys. A study was made of the effect of harmonic and jarring vibrations on 1-35 kg ingots of steel A20 and of the alloys N79M4, N35MV, and N25Yu9. The temperature before pouring was kept the same in all the experiments. The study was conducted in frequency ranges of 1-60 cps with 0.3-1 mm amplitudes for the harmonic vibrations, and 2-13 cps with 1.2-4 mm amplitudes for the jarring vibrations. It was found that the vibration of a crystallizing ingot has a pronounced refining effect on its (cast) grain and increases its density and that, moreover, the action of the jarring vibrations is stronger (requiring a smaller frequency and amplitude to produce the same effect).

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137-1958-2-2493

On the Use of Vibration on a Crystallizing Ingot

Each alloy, however, was found to have its optimum vibrating conditions, outside of which the vibrations affected the structure of the ingot either insufficiently or detrimentally, causing the appearance of longitudinal liquation bands, S-enriched in the case of steel A20, C-enriched in the case of the alloy N35MV, and Nb-enriched and perhaps Al-enriched in the case of the alloy N25Yu9. The effective removal of gases achieved by the vibrations made it possible in the experiments, starting from gas-contained alloys, to produce ingots with a close-grained skin and few gas blisters in the central part. The shrinkage head functioned most satisfactorily when the ingot was vibrating. It is recommended that heating riser compounds not be used to improve the effectiveness of the feeding, because the vibrations agitate the steel very vigorously inside the mold, and this can contaminate the steel (the effect of this stirring action was tested with an Fe isotope). To increase the efficiency of the shrinkage head operation when the ingot vibrates, the suggestion is made that the liquid surface of the shrinkage head be heated by a gas or electrical method, to be adopted after suitable laboratory testing. The appearance under certain conditions of liquation bands during vibration of an ingot is accounted for in terms of

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137-1958-2-2493

On the Use of Vibration on a Crystallizing Ingot

the crystallization in depth, since the vigorous agitation or stirring of the alloy during crystallization will create, as of a certain moment, the necessary conditions for the formation and growth of crystals throughout the alloy. It thus becomes fully possible to improve the quality of an ingot by applying this vibration method during the crystallization process. A brief survey is given of the work being done in this field.

Bibliography: 19 references.

A. R.

1. ~~Ingots--Crystallization~~
2. ~~Vibration--Applications~~

Card 3/3

GRATSIANOV, Yu. A.

137-1957-12-23522

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 98 (USSR)

AUTHORS: Gratsianov, Yu. A., Gerasimenko, A. A.

TITLE: The Effect of the Smelting Process on the Physical and Technological Properties of Mo-Permalloy (Vliyaniye protsessa vyplavki na fizicheskiye i tekhnologicheskiye svoystva Mo-permalloya)

PERIODICAL: Sb. tr. Tsent. n.-i. in-t chernoy metallurgii, 1956, Nr 15, pp 219-258

ABSTRACT: Research was conducted for the purposes of determining an optimal technology for the smelting of precision alloys, as well as to study the effects of smelting conditions on their technological and physical properties. The subjects of the investigation were 40 kg batches which were smelted as follows: 1) Without slag; 2) Under acid slags; 3) Under alkaline slags, accompanied by diffusion reduction. The method of smelting which utilizes basic slags and employs the diffusion reduction of the metal through the slag, produces alloys with good technological and magnetic properties. To obtain alloys of such properties by smelting in an open furnace, the following conditions are essential:

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the employment of diffusion reduction and the consecutive

137-1957-12-23522

The Effect of the Smelt. Process (cont.)

precipitation reduction of the metal, and the presence of Mn (0.8 - 1.2 percent), Si (0.2 - 0.7 percent), Mg (0.05 - 0.1 percent), and Ca (0.025 - 0.050 percent). The presence of more than 0.015 percent of S in the alloy produces a sharp decline in magnetic properties, whereas the presence of more than 0.005 percent of Pb impairs the plasticity of the hot alloy but does not affect the magnetic properties. The employment of Be, Ti, Zn, and Al as technological additives impairs the technological and the magnetic properties of the Mo-permalloy. If the metal is poured at a temperature of $1570 \pm 10^{\circ}$ the billets exhibit a pronounced columnar structure with traces of shrinkage porousness in the area of the junction of two opposite zones. The columnar nature of crystallization, although preserved, is less pronounced when the metal is cast at a temperature of $1510 \pm 10^{\circ}$. Ingots cast at $1480 \pm 10^{\circ}$ are well suited for forging. 90 out of 98 smeltings were cast at temperatures between 1540 and 1570° .

G. S.

1. Alloys-Smelting technology
2. Alloys-Physical properties-Effects

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GRATSTANOV, YU. A.

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Magnetic high-silicon alloy. D. I. Gabrielyan, A. A. Gerasimenko, and Yu. A. Gratstanyov. U.S.S.R. 105,193, Apr. 25, 1957. The alloy contains Si 7-9, Ni 10-14, Cr up

to 0.5, Li up to 0.01, Ce up to 0.1%, rest Fe. It is used in elec. appliances. M. Rosch

MT

GRATSIANOV Yu. A.

PHASE I BOOK EXPLOITATION

SOV/3895

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
Institut pretsizionnykh splavov

Pretsizionnyye splavy (Precision Alloys) Moscow, Metallurgizdat, 1960. 283 p.
(Series: Its: Sbornik trudov, vyp. 23) Errata slip inserted. 2,525 copies
printed.

Additional Sponsoring Agency: USSR. Gosudarstvennaya planovaya komissiya.

Ed.: D.I. Gabrielyan; Ed. of Publishing House: Ye.I. Levit; Tech. Ed.:
Ye.B. Vaynshteyn.

PURPOSE: This book is intended for engineers and scientific personnel in the
metallurgical, instrument-production, and electrical-equipment industries,
as well as for industrial personnel engaged in the production of precision
alloys. It may also be useful to students attending advanced technical schools.

COVERAGE: The articles in this collection present the results of investigations
conducted in recent years by the Central Scientific Research Institute of

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Precision Alloys

SOV/3895

Ferrous Metallurgy (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii). The articles deal with industrial techniques of producing soft magnetic alloys, properties and structure of the alloys at extremely low temperatures and in high-frequency magnetic fields, deformation textures, magnetostriction, the galvanomagnetic effect, volume changes, etc. Some articles are concerned with the investigation of deformed hard magnetic alloys. No personalities are mentioned. The articles are accompanied by references, both Soviet and non-Soviet.

TABLE OF CONTENTS:

Sokolov, V.I. Development of Methods of Obtaining 50N and 79NM Soft Magnetic Alloys With Good Magnetic Properties	5
Bakulin, N.I. Rolling Iron-Nickel Powders Into Strip	23
Gratsianov, Yu.A. and A.A. Gerasimenko. New Soft Magnetic Iron-Nickel-Silicon Workable Alloys	34
Gabrielyan, D.I. and G.N. Kadykova. Improved Dynamo Grade Electrical Sheets (With Al and As Additions)	47
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S/032/63/029/002/015/028
B101/B186

AUTHORS: Gratsianov, Yu. A., Zusman, Sh. I., and Rabin'kin, A. G.
TITLE: Measurement of hysteresis loops of highly coercive alloys
PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 2, 1963, 200

TEXT: Exchangeable Armo iron shoes (Fig. 1) permitting a measurement of the magnetic properties of platinum-cobalt alloy specimens, diameter 5-15 mm, length 10-15 mm, were constructed for the permeameter of a LY-3 (BU-3) apparatus. Magnetic fields up to 18,000 oe can be obtained with a gap of 15 mm, up to 23,000 oe with a gap of 10 mm. The magnetic field in the cross section of a 15 mm gap is uniform to within 1% accuracy. There are 2 figures.

ASSOCIATION: Institut pretsizionnykh splavov TsNIICM
(Institute of Precision Alloys TsNIICM)

Fig. 1. Design of the shoes.

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ACCESSION NR: AP4034050

S/0126/64/017/004/0519/0526

AUTHORS: Gratsianov, Yu. A.; Rabin'kin, A. G.

TITLE: The problem of the effect exerted by preliminary plastic deformation on the magnetic properties of Co-Pt alloys

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 4, 1964, 519-526

TOPIC TAGS: plastic deformation, annealing, cobalt, platinum, induction furnace, alundum, magnetization/ R 306 potentiometer

ABSTRACT: The authors studied the effects of preliminary plastic deformation and subsequent annealing on the magnetic properties of Co-Pt alloys having nearly equiatomic composition. The mixture used for these experiments consisted of technically pure Pt ($\geq 99.97\%$) and electrolytic Co (99.99%) refined by high-temperature annealing in hydrogen and in vacuum. These were alloyed in an induction furnace in an alundum crucible in vacuum (10^{-3} mm Hg). Next, the alloy was drawn through quartz tubes, 4.5-5.2 mm in diameter. The test specimens were rolled to varying degrees from 13.6 to 44.6% and had diameters ranging from 2.7-4.5 mm. The drawing was done so as to keep the intermediate deformations low. The specimens (15 mm in length) were annealed in a vacuum furnace at temperatures of 550, 600, Card 1/2

ACCESSION NR: AP4034050

and 650C for different intervals of time. After each annealing the specimen was cooled to room temperature, and its magnetization was measured with a ballistic apparatus (Brit. Patent No. 849, 505, Sm. RZh "Metallurgiya," 1961, No.6, 6I233P), at a maximum field of 18 000 oersteds. The electrical resistance was measured with a low-resistance R-306 potentiometer. The plots of magnetization versus the time of annealing for various specimens revealed that plastic deformation increased the coercive force to more than twice that at the original state. Plastic deformation seemed to change significantly the kinetics and the nature of the ordering process. It was also found that the maximal coercive force and the magnetic energy sharply increased as a result of annealing. The authors thank I. L. Aptekar' for his attention to this work and his advice, and B. S. Krasnopevtsev and G. I. Izotova for helping with the experiments. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Institut pretsizionnykh splavov, TsNIICHM im. I. P. Bardina (Institute for Precision Alloys, TsNIICHM)

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ENCL: 00

SUB CODE: MM, SS

NO REF SOV: 004

OTHER: 004

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L 57530-65 EPA(s)-2/EWT(m)/EWP(e)/EWP(w)/EWA(d)/T/EPR/EWP(t)/EWP(k)/EWP(z)/
EWP(b) Pf-l/Pad/Ps-l IJP(c) MJW/JD/HW
ACCESSION NR: AR5015189 UR/0137/65/000/005/1060/1060

SOURCE: Ref. zh. Metallurgiya, Abs. 51384

AUTHOR: Gratsianov, Yu. A.; Putimtsev, B. N.

TITLE: Investigation of the magnetic properties of metalloceramic permanent magnets made of powders of alloys of the iron-nickel-aluminum system

CITED SOURCE: Sb. dokl. na Vses. soveshchani¹¹ po litym splavam diya postoyan. magnitov, 1962. Saratov, 1964, 154-167

TOPIC TAGS: magnetic property, metal ceramic material, magnetic alloy,
permanent magnet, magnet, powder metal, iron base alloy, nickel containing alloy,
aluminum containing alloy, porous metal, metal porosity, ferromagnetic material/
YuND4 alloy, YuNDK24 alloy, YuNDK35T5 alloy, GOST 9575-60

TRANSLATION: Alloys YuND¹⁸4, YuNDK¹⁸24, and YuNDK¹⁸35T5 were investigated. With a growth of porosity within the limits up to 8-12%, the residual induction and maximum energy of the three alloys decrease linearly and are mainly determined by a decrease in ferromagnetic volume. Magnets with a porosity equal to or less than 5-6% have magnetic properties close to those required by GOST 9575-60 for cast

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L 57530-65

ACCESSION NR: AR5015189

alloys. (From R. Zh. Elektrotekhnika)

SUB CODE: MM

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L-57718-65 EPT(h)-2/EPA(s)-2/ENP(k)/ENP(z)/ENT(m)/ENT(b)/ENR(d)/ENP(e)/ENP(f)
 PI-L/PI-7/Pu-L IJP(c) WH/JG/MJW/JD
 ACCESSION NR: AR5015157 UR/0137/65/000/005/0031/0031

SOURCE: Ref. zh. Metallurgiya, Abs. 50187

AUTHOR: Gratsianov, Yu. A.; Putimtsev, B. N.

TITLE: Preparation of ferromagnetic powders by spraying metallic melts

CITEI SOURCE: Tr. 7 Vses. nauchno-tekhn. konferentsii po poroshk. metallurgii.
 Yerevan, 1964, 160-166

TOPIC TAGS: powder metallurgy, powder metal production, ferromagnetic material,
 ferromagnetic powder, spraying, iron base alloy, nitrogen, oxide formation,
 powder metal pressing/ N50 alloy, 79NM alloy

TRANSLATION: The article describes a process for the air or nitrogen spraying of
 technical grade iron (0.2% copper, 0.02% carbon, 0.04% manganese, 0.025% sulfur,
 and 0.009% phosphorus) and alloys of iron with carbon, silicon, and aluminum.
 The metals were melted in an induction furnace. Spraying was done with gas under
 a pressure of 5-6 atm. The sprayed metal particles were cooled in water. The
 most intense dispersion of the melts was attained by use of a jet spray with an
 annular nozzle; an increase in heating temperature increases the yield of fines

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Fractions. The highest degree of pulverization is reached by raising the blowing temperature up to 600-700°. With an increase in blowing pressure, the amount of defects in the metallic particles decreases and the volumetric weight of the powder rises. With spraying in an oxidizing atmosphere, the particles are covered with an oxide film. Powders produced by spraying generally have a spherical particle shape; however, with spraying of iron-aluminum melts with an aluminum content of more than 1%, powders are obtained which have chip shaped particles; this is explained by the interaction between the liquid metal and the oxide film. Such powders are easily pressed. Homogeneity of the particles with respect to chemical composition is assured by the rapid rate of the process. High quality powders of alloys N50 and 79AM were obtained. V. Kvin.

SUB CODE: MM

ENCL: 00

Card 2/2

GRATSIANOV, Yu.A.; RABIN'KIN, A.G.

Saturation magnetization and the Curie points in ordered alloys of the system cobalt - platinum. Fiz. met. i metalloved. 17 no.6:938-940 Je '64. (MIRA 17:8)

1. Institut pretsizionnykh splavov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii imeni Bardina i Institut khimicheskoy fiziki AN SSSR (filial).

L 56683-65 EPA(s)-2/EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJW/JD

ACCESSION NR: AP5015963

UR/0128/65/000/006/0027/0028

621.74.043.1:621.318.2 28

AUTHOR: Gratsianov, Yu. A. (Candidate of technical sciences); Gerasimenko, A. A. (Engineer)

TITLE: Producing cast magnets fb

SOURCE: Liteynoye proizvodstvo, no. 6, 1965, 27-28

TOPIC TAGS: cast magnet, permanent magnet, directed crystallization, fan crystallization

ABSTRACT: Specimens of YuNDK25A and YuNDK25BA alloys were cast under various controlled conditions to determine the cause of differences in the magnetic properties which had been observed in magnets of the same chemical composition. Results showed that the magnetic properties of magnets with fan-shaped crystals were considerably lower than for magnets with a more perfect crystal texture. It is concluded that the formation of fan-shaped crystals occurs during very intense heat loss and considerable overheating of the metal being poured into the mold. It is suggested that heat loss and metal temperature be regulated more closely and that the mold

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ACCESSION NR: AP5015963

should be heated to optimal temperature in order to produce castings with a more perfectly oriented crystal structure. Orig. art. has: 1 figure, 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, SS

NO REF SOV: 002

OTHER: 000

282
Card 2/2

L 13118-66 EWP(e)/EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/HW/JG

ACC NR: AP6006713

SOURCE CODE: UR/0105/65/000/010/0086/0088

AUTHOR: Gratsianov, Yu. A. (Candidate of technical sciences); Rabin'kin, A. G. (Engineer)

ORG: TsNIIschermet im. I. P. Bardin

TITLE: High coercivity cobalt-platinum alloys

SOURCE: Elektrichestvo, no. 10, 1965, 86-88

TOPIC TAGS: cobalt alloy, platinum alloy, metal property, solid mechanical property, magnetic property, metal heat treatment, chemical composition

ABSTRACT: (In contrast to the well known $Fe-Ni-Co-Al$ magnetic materials, Cobalt-Platinum alloys are malleable, easily submit to all types of mechanical treatment, in the high-coercivity state have great strength and ductility and are non-corroding in almost all media. These alloys have the highest coercive force by induction, reaching 400 ka/m, high residual induction and great specific magnetic energy -- on the order of 40 kJ/m³. This article presents the results of an experimental investigation of the influence of chemical composition, initial state and heat treatment on the magnetic properties of Cobalt-Platinum alloys. It is discovered that the greatest specific magnetic energy is

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UDC: 621.318.12

L 13118-66

ACC NR: AP6006713

produced in alloys with 24-25% Co, remainder Pt. Optimal heat treatment involves heating to 1000°C, retention for 2 hr, cooling in the interval 830-750°C with a rate of 50/sec to 660°C and retention at this temperature for 30-60 min. This can be attained in practice by submersion in a salt bath with melt temperature of 660°C. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 11, 13, 07 / SUBM DATE: 18Jan65 / ORIG REF: 005

Card 2/2

H.W

GRATSIANOV, Yu.A., kand.tekhn.nauk; POLYAK, D.C., kand.tekhn.nauk;
PUTIMTSEV, B.N., inzh.; TATUR, O.N., inzh.

Manufacture and characteristics of ferromagnetic powders
for electromagnetic powder clutches and brakes. Elektrotehnika
36 no.11:42-47 N '65. (MIRA 18:11)

L 29103-66 EWT(1)/EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) JD

ACC NR: AR5018680

SOURCE CODE: UR/0196/65/000/007/B005/B006

AUTHOR: Gratsianov, Yu. A.

ORG: none

TITLE: Studies of the magnetic properties of metalloceramic permanent magnets made from alloys of the iron-nickel-aluminum system

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. ²⁷7B24

REF SOURCE: Sb. dokl. na Vses. soveshchanii po litym splavam dlya postoyan. magnitov, 1962. Saratov, 1964, 154-167

TOPIC TAGS: alloy, iron, nickel alloy, aluminum base alloy, permanent magnet material, powder alloy, magnetic alloy, magnetic property

TRANSLATION: The results are given of research done on magnetic alloys for metal powder permanent magnets (M) made of powders (P) prepared from alloys (A) of types YuND4 (I), YuNDK24 (II) and YuNDK35T5 (III), with regard to porosity, granulometric consistency of P, and the phase component for mixtures of P II and III. The P was obtained by pulverizing a jet of liquid metal on a gas-jet device with circular spraying by means of air or nitrogen under pressures of 4 to 5 atmospheres.

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UDC: 621.318.2

L 29103-66

ACC NR: AR5018680

In the disengaging press-mold, 10x10x10 mm Ms were pressed from P fractions < 0.25 mm, under pressure of 5 to 6 tons/cm². The remaining porosity of the pressed samples did not exceed 25-28%. The M was sintered in high-temperature vacuum ovens at mercury column levels of $2 \pm 5 \cdot 10^{-5}$ mm. Together with the oven, the M was cooled in a vacuum of up to 100-200°C. In order to obtain high magnetic properties, the M was processed thermally: the hardening started at temperatures corresponding to the 1-phase state of A and the subsequent annealing at temperatures from 700 to 560°C, or within intervals of these temperatures. The M made of mixture of P II and P III (with ratios: 70:30, 60:40, 50:50, 40:60 and 30:70) was made in the same way. The hardening was achieved in 20 min. at the hardening temperature of the lower-melting component III, or exceeding it by 10 to 60 for M with a greater content of II. The porosity of mixed M was within 3-9%. All M's were subjected to thermal processing according to the method approved for III. With a porosity increase of 8-12%, the remaining induction of the maximum power of M made of I, II and III decreased in linear ratio and was determined primarily by their increase in ferromagnetic volume.

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L 29103-66

ACC NR: AR5018680

Higher porosity is accompanied by greater decrease in the above-mentioned properties due to the demagnetizing effect of pores (larger pores), and with open porosity (M with a porosity $>16-18\%$) due to the oxidation of the M volume in the process of high-temperature hardening. For practical purposes, the M with a porosity as high as 10% is acceptable. The H_c of M practically does not depend on the porosity and diminishes only in cases of open porosity because of the oxidation of the M volume. The magnetic properties of M made of III do not depend on the size of the particles of the outgoing P. This indicates that all the particles are identical in their chemical composition and that possible oxides are grouped mostly within the particles pores. This condition makes it possible to use in the making of M all P 0.25 ± 0.30 mm without preliminary dispersal. A comparative table is given of the properties of M made of I, II, and III, but prepared by different methods when made: from P alloys, from pure metal P, and by casting. The M prepared from P alloys with a porosity of $\leq 5-6\%$ has high magnetic properties, which approximate the requirements of GOST 9576-60 for cast alloys. Due to their high magnetic properties, the indicated materials may find extended practical application. Figures 5, tables 3, references 6.

SUB CODE: 11,20

Card 3/3 CC

L 07954-67 EWT(m)/EWP(t)/ETI LJP(c) JD

ACC NR: AP6032486 SOURCE CODE: UR/0413/66/000/017/0025/0025

INVENTOR: Gratsianov, Yu. A. ; Gerasimenko, A. A. ; Pasechnaya, V. V.

3/
30
B

ORG: none

TITLE: Method of obtaining products by a drop forging. Class 18, No. 185354
[announced by Central Scientific Research Institute of Ferrous Metallurgy im. I. P.
Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966,
25

TOPIC TAGS: drop forging, synthetic slag, magnetic alloy, rolling, metal
rolling

ABSTRACT: An Author Certificate has been issued for the use of combined
methods of preparation and treatment of alloys. They are melted in the basic
crucible treated with synthetic lime slag^{1/2} followed by diffusing deoxidation and
introduction of aluminum under a cryolite slag, quenching the cast billet up to
300C of 200 deg/hr, heating while being rolled at not more than 200 deg/hr up to

Card 1/2

UDC: 669.187.26:669.15'24'25-192.6-41:621.777:621.984

1 07954-07
ACC NR: AP603248G

800C, and after that up to 1270—1300C at any speed, and finally rolled at this temperature and drop forged at 800—850C for obtaining magnetic-alloy products with any desired configuration. [Translation]

SUB CODE: 13/ SUBM DATE: 11Mar64/

Card 2/2 *egh*

KOSYGIN, Yu.A.; GRATSIANOVA, O.P., redaktor; MURATOVA, V.M., redaktor;
TROFIMOV, A.V., tekhnicheskii redaktor

[Geologist's handbook on natural gas] Spravochnik geologa po
prirodnomu gazu. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i
gorno-toplivnoi lit-ry.Vol.1 [General geology] Obshchaia geo-
logiia. 1951. 415 p. (MLRA 8:10)
(Geology)

ZUBOV, I.P.; YENIKYEV, P.N.; GRATSIANOVA, O.P.

Present status of and trends in oil and gas prospecting. Geol.
nefti i gaza 3 no.8:1-7 Ag '59. (MIRA 12:11)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Petroleum geology) (Gas, Natural--Geology)

BORISOV, Aleksandr Aleksandrovich; VASIL'YEV, Viktor Grigor'yevich;
ZHUKOVSKIY, Leonid Grigor'yevich; KAYESH, Yuriy Vladimirovich;
SEME NOVICH, Vladimir Vladimirovich; GRATSIANOVA, O.P., red.;
DEMENT'YEVA, G.A., vedushchiy red.; GANINA, L.V., tekhn.red.

[Studies of the geology, and oil and gas potentials of Central
Asia] Ocherki geologicheskogo stroeniia i neftegezonosnost'
Srednei Azii. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-
toplivnoi lit-ry, 1960. 174 p. (MIRA 13:11)

(Soviet Central Asia--Petroleum geology)
(Soviet Central Asia--Gas, Natural--Geology)

PHASE I BOOK EXPLOITATION

SOV/5442

Gratsianova, O. P., ed.

Spravochnik geofizika v chetyrekh tomakh. t. 1: Stratigrafiya, litologiya, tektonika i fizicheskiye svoystva gornyykh porod (The Geophysicist's Handbook in Four Volumes. v. 1: Stratigraphy, Lithology, Tectonics, and the Physical Properties of Rocks) Moscow, Gostoptekhizdat, 1960. 636 p. 6,740 copies printed.

Executive Ed.: Yu. K. Bekman; Tech. Ed.: E.A. Mukhina.

PURPOSE: This book is primarily intended for geologists and geophysicists working in the oil, gas, coal, and ore mining industries.

COVERAGE: The book is the first of four volumes constituting a handbook on the geophysical aspects of oil exploration in the USSR. Vol. 1 treats the geology and physical properties of rocks. Vol. 2 will treat industrial geophysics, Vol. 3 - electrical and seismic prospecting, and Vol. 4 - gravity and magnetic prospecting. Emphasis in this volume is placed on the tectonics and physical properties of rocks in oil- and gas-bearing regions,

Card 1/21

VASIL'YEV, V.G.; GRACHEV, G.I.; NEVOLIN, N.V.; OZERSKAYA, M.I.; PODOBA, N.V. Prinimali uchastiye: ALEKSEYCHIK, S.N.; GUSHKOVICH, S.N.; DIKENSHTSEYN, G.Kh.; DZVELAYA, M.F.; DRABKIN, I.Ye.; IVANOVA, M.N.; KAZARINOV, V.P.; KALININA, V.V.; KOZLENKO, S.P.; MEDVEDEV, V.Ya.; PUSTIL'NIKOV, M.R.; ROSTOVTSSEV, N.N.; SKOBLIKOVA, G.I.; STEPANOV, P.P.; TITOV, V.A.; FOTIADI, E.E.; CHIRVINSKAYA, M.V.; SHMAROVA, V.P.; GRATSIAANOVA, O.P. red.; BEKMAN, Yu.K., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Manual for geophysicists in four volumes] Spravochnik geofizika v chetyrekh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.1. [Stratigraphy, lithology, tectonics, and physical properties of rocks] Stratigrafiia, litologiya, tektonika i fizicheskie svoistva gornyx porod. Pod red. O.P. Gratsianovoi. 1960. 636 p. (MIRA 14:1)
(Petroleum geology) (Gas, Natural--Geology)

VASIL'YEV, V.G.; MERZLENKO, Yu.F.; MATSKEVICH, M.M.; ZHIVAGO, N.V.;
LI CHZHAO-ZHEN' [Li Chao-Jên]; GOLYAKOV, V.A.; SHABATIN, I.V.;
BORISENKO, Ye.M.; MIROSHNIKOV, M.V.; USPENSKAYA, N.Yu.;
KHEL'KVIST, V.G.; GRATSIAKOVA, O.P.; BUDNIKOV, N.B.; BELOV, K.A.;
MAKSIMOV, S.P.

Discussion. Trudy VNIGNI no.32:282-336 '60.

(MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza (for Vasil'yev, Zhivago, Khel'kvist).
2. Neftepromyslovoye upravleniye Stavropol'neft' (for Merzlenko).
3. Groznenskiy nauchnoissledovatel'skiy neftyanoy institut (for Matskevich).
4. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina (for Li Chzhao-zhen', Uspenskaya).
5. Stavropol'skiy filial Groznenskogo nauchnoissledovatel'skogo neftyanogo instituta (for Golyakov, Shabatin, Borisenko, Miroshnikov).
6. Ministerstvo geologii i okhrany neдр SSSR (for Gratsianova, Budnikov).
7. Glavnyy geolog neftyanogo i gazovogo upravleniya Stavropol'skogo sovnarkhoza (for Belov).

(Caucasus, Northern--Petroleum geology)

(Caucasus, Northern--Gas, Natural--Geology)

GRATSIANOVA, O.P.; FEDYNSKIY, V.V.

New geological results of regional geophysical works. Sov. geol. 3
no.3:143-148 Mr '60. (MIRA 13:11)

1. Ministerstva geologii i okhrany nedr SSSR.
(Geology)

FEDYNSKIY, V.V., doktor fiziko-matem. nauk, red.; SHIROKOV, A.S., red.; KO-
VALEVA, A.A., red.; GRATSIAKOVA, O.P., nauchn. red.; BORISOV, A.A.,
nauchn. red.; FEDYUK, V.I., nauchn. red.; KOTLYAREVSKIY, B.V.,
nauchn. red.; POMERANTSEVA, I.V., nauchn. red.; MOZZHENKO, A.N.,
nauchn. red.; LOZINSKAYA, A.M., nauchn. red.; SHNEYERSON, M.B.,
nauchn. red.; BOGDANOV, A.Sh., nauchn. red.; NIKITSKIY, V.Ye., nauchn.
red.; KUDYMOV, B.Ya., nauchn. red.; PETROV, L.V., nauchn. red.; KOMA-
ROV, .S.G., nauchn. red.; GORBUNOV, G.V., nauchn. red.; DUNCHENKO, I.A.,
nauchn. red.; FEL'DMAN, I.I., nauchn. red.; POMETUN, D.Ye., nauchn.
red.; BEKMAN, Yu.K., ved. red.; VORONOVA, V.V., tekhn. red.

[Status and prospects for developing geophysical methods for mineral
prospecting] Sostoianie i perspektivy razvitiia geofizicheskikh meto-
dov poiskov i razvedki poleznykh iskopaemykh; materialy. Pod red. V.V.
Fedynskogo. Moskva, Gos. nauchno-tekhn. izd-vo nef. i gorno-toplivnoi
lit-ry, 1961. 623 p. (MIRA 14:11)

1. Nauchno-tekhnicheskaya geofizicheskaya konferentsiya, Moscow, 1959.
2. Ministerstvo geologii i okhrany neдр SSSR (for Fedynskiy, Petrov).
(Prospecting—Geophysical methods)

AYZENSHTADT, G.Ye.-A.; GRATSIANOVA, O.P.; NEVOLIN, N.V.; EVENTOV, Ya.S.

Efficient methods for geological mapping and prospecting in
salt-dome regions. Sov.geol. 4 no.12:113-116 D '61. (MIRA 15:2)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Geology--Maps)
(Prospecting)
(~~Salt~~ domes)

GRATSIANOVA, O.P.

Results of geophysical prospecting prior to structure test
drilling, 1959-1960. Geol. neft i gaza 5 no.10:21-29 0 '61.
(MIRA 14:9)

1. Ministerstvo geologii i okhrany neдр SSSR.
(Petroleum geology) (Gas, Natural--Geology)

Gratsianova, R.T.

GRATSIANOVA, R.T.

Facies complexes of brachiopods of Givetian and Frasnian deposits in
the Sayan-Altai region. Trudy Gor.-geol.inst.Zap.-Sib.fil.AN SSSR
no.13:119-128 '53. (MIRA 8:12)
(Sayan Mountains--Brachiopoda, Fossil) (Altai Mountains--Brachiopoda,
Fossil)

AKSARIN, A.V.; ANAN'YEV, A.P.; BENEDIKTOVA, R.N.; GORBUNOV, M.G.; GRATSIANOVA, R.T.; YEGOROV, L.I.; IVANIYA, V.A.; KRAYIVSKAYA, L.N.; KRASHOPRYEVA, P.S.; LEBNDEV, I.V.; LOMOVITSKAYA, M.P.; POLETAYEVA, O.K.; ROGOZIN, L.A.; RADCHENKO, G.P.; RZHONSNITSKAYA, M.A.; SIVOV, A.G.; POMICHEV, V.D.; KHALFINA, V.K.; KHALFIN, L.L.; CHERNYSHEVA, S.V.; NIKITINA, V.N., redaktor; GUROVA, O.A., tekhnicheskiiy redaktor

[Atlas of leading forms of fossils in the fauna and flora of Western Siberia] Atlas rukovodiashchikh form iskopaemykh fauny i flory zapadnoi sibiri. Pod red. L.L.Khalfina. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, Vol.1. 1955. 498 p. Vol.2. 1955. 318 p. [Microfilm] (MLRA 9:3)

1. Tomsk. Politekhnikheskiy institut imeni Kirova.
(Siberia, Western--Paleontology)

CHERNOV, G.A.; GHATSIAHOVA, R.T.

Lower Devonian fauna and stratigraphy of the Peschanaya
Valley in Gornyy Altai. Trudy Gor.-geol.inst.zap.-Sib.fil.
AN SSSR no.17:191-200 '56. (MIRA 13:5)
(Peschanaya Valley--Geology, Stratigraphic)

3(5)

AUTHOR:

Gratsianova, R. T.

SOV/20-127-4-33/60

TITLE:

Marine Deposits of the Tournaisian Stage in the Gornyy-Altay

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 344-345
(USSR)

ABSTRACT:

G. A. Kurganov collected a brachiopodan fauna in the vicinity of the village Cheremshanka in the northern part of the Altay the classification of which yielded, for the first time, data on the Famennian in the Gornyy-Altay. The author visited that region in 1957. She found that the Famennian sediments are deposited transgressively on the Lower Devonian, constituting a synclinal fold. A. I. Naumenko (Tomskiy gosudarstvennyy universitet - Tomsk State University) found there an additional fauna in rocks situated on a higher level than the Famennian Brachiopoda. Its composition (according to the classifications of the author) proves that the upper half of the Cheremshanka cross section consists of the above sediments. In the Gornyy-Altay these sediments had never been investigated before. The cross section is then described: It consists of 13 horizons 5-200 m thick, 5 of them possessing a fauna. The thickness of the horizons can be determined only approximately as they are heavily covered with

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Marine Deposits of the Tournaisian Stage in the
Gornyy-Altay

SOV/20-127-4-33/60

grass. An analysis of the fauna of various horizons reveals that in the sandstones of horizon 3 there is an Upper Famennian brachiopodous complex which largely consists of species occurring in the European part of the USSR and in the Kuznetskiy basin. The fauna of the horizons 6-8 is distinctly Tournaisian, corresponding to that of the Taydonskaya biostratographic zone of the said basin (according to A. P. Rotay). The following preliminary conclusions are drawn by the author:

(1) In the Northern part of the Anaysko-Chuyskiy fault, there was a sea towards the end of the Famennian and the beginning of the Tournaisian period. It was connected with seas in the North, North-East, and North-West. Its extension over the entire fault and its connection with seas in the South and South-West probably took place in the Famennian, but are rather unclear as to the Tournaisian epoch. (2) The transition of the Devonian sediments into the Carboniferous is continuous in this part of the Anaysko-Chuyskiy synclinalium. The boundary can only be drawn with reference to the fauna in the uppermost layer of the strata,

Card 2/3

Marine Deposits of the Tournaisian Stage in the
Gornyy-Altay

SOV/20-127-4-33/60

which are rich in cyrtospirifers. (3) The Cherenshanka Suite of the Gornyy-Altay which is indicated as "D₃fm" in the unified stratigraphic scheme, contains also Tournaisian sediments (D₃fm-C₁t). There are 3 Soviet references.

ASSOCIATION: Institut geologii Sibirskogo otdeleniya Akademii nauk SSSR
(Institute of Geology of the Siberian Department of the Academy of Sciences, USSR)

PRESENTED: February 19, 1959, by A. A. Trofimuk, Academician

SUBMITTED: February 9, 1959

Card 3/3

GRATSIANOVA, R.T.

Comparison of the sandy-schistose and carbonaceous deposits
of the Lower Devonian and Eifelian of the Gornyi Altai and
the northeastern slope of the Salair. Geol.i geofiz. no.5:76-
81 '62. (MIRA 15:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.
(Altai Mountains--Geology, Stratigraphic)
(Salair Ridge--Geology, Stratigraphic)

KUL'KOV, Nikolay Petrovich; GRATSIANOVA, R.T., kand. geol.-miner.
nauk, otv. red.; GRIGOR'YEVA, A.D., red.izd-va; KALANTAROV,
A.P., red.izd-va; MATYUKHINA, L.I., red.izd-va; DOROKHINA,
I.N., red.izd-va

[Brachiopods in Lower Devonian Splov'ikha layers of the Gornyy
Altai] Brakhiopody solov'ikhinskikh sloev nizhnego devona Gor-
nogo Altaia. Moskva, Izd-vo AN SSSR, 1963. 130 p.

(MIRA 16:12)

(Altai Mountains--Brachiopoda, Fossil)

ALEKSEYEVA, R.Ye.; BETEMENTINA, O.A.; VOZZHENNIKOVA, T.F.; GRATSIAKOVA, R.T.;
DUBATOLOV, V.N.; YILKIN, Ye.A.; ZAKHAROV, V.A.; IVANOVSKIY, A.B.;
SIDYACHENKO, A.I.; KUL'KOV, N.P.; MYAGKOVA, Ye.I.; OBUT, A.M.;
SAKS, V.N.; TESAKOV, Yu.I.; FURSENKO, A.V.; KHOMENTOVSKIY, V.V.;
YUFEREV, O.V.

Corresponding Member of the Academy of Sciences of the U.S.S.R.
Boris Sergeevich Sokolov; 1914 - ; on his 50th birthday. Geol.
i geofiz. no.8:140-147 '64 (MIRA 18:2)

KALUGIN, A.S.; ANAN'YEV, A.R.; GRATSIANOVA, R.T.; KUL'KOV, N.P.; MIRONOVA, N.V.;
NADLER, Yu.S.

Stratigraphic position and the age of the horizon of the volcanic
sedimentary iron ores in Devonian sediments in the Altai. Trudy
SNIIGGIMS no.29:142-148 '64. (MIRA 18:3)

ZUBAL', A.V.; GRATSIAKOVA, Ye.A.

Diagnostic significance of determining the activity of serum
adolase in epidemic hepatitis; an abstract. Lab. delo. no.1:
22 '65. (MIRA 18:1)

1. Kafedra infektsionnykh bolezney (zaveduyushchiy - dotsent
V.A. Matsiyevskiy) Ivano-Frankovskogo meditsinskogo instituta
i Ivano-Frankovskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii (glavnyy vrach A.B. Petrushevskiy).

L 56088-65 EMP(e)/EWT(m)/EPF(n)-2/EMA(d)/EMP(t)/EMP(z)/EMP(b) Pf-4/
Pad/Pu-4 LJP(c) MJW/JD/HW/JG
ACCESSION NR: AR5015154 UR/0137/65/000/005/0028/0028

SOURCE: Ref. zh. Metallurgiya, Abs. 56168

AUTHOR: Gerasimenko, A. A.; Gratsianov, Yu. A.

TITLE: The technology of melting magnico type alloys

CITED SOURCE: Sb. dokl. na Vses. soveshchaniy po litym splavam dlya postoyan. magnitov, 1962. Saratov, 1964, 74-86

TOPIC TAGS: magnico alloy, nickel containing alloy, aluminum containing alloy, columbium containing alloy, melting, rare metal, induction furnace, induction melting

TRANSLATION: The article describes the technology of melting nickel-aluminum-iron alloys with additions of rare metals (for example, 25% nickel, 1% aluminum, 62% iron, and 4% columbium) with careful reduction of the alloy and with a layer of a mixture of aluminum powder and lime (33% CaO, 67% aluminum; method of preparation is described in the appendix) over the slag, in an induction furnace with 60 kilowatts of power, a frequency of 2200 cycles, and a magnesium oxide crucible with a capacity of 30 kg. 8 figures, 4 tables, 7 literature titles.

Card 1/2

L-56088-65
ACCESSION NR: AR5015154

A. Tseidler.

SUB CODE: NM

ENCL: 00

282
Card 2/2

GRATS'ANSKAYA, A. M.

USSR/Human and Animal Morphology (Normal and
Pathological). Nervous System. Periphc-
ral Nervous System.

S-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74299

Author : ~~Gratsianskaya, A. M.~~

Inst : AS USSR.

Title : Morphological Changes in the Tongue after
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ses with the accumulation in them of neutro-

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ROZENTSVIT, G.B., EL'KIN, M.A., LIKHAREVA, K.I.

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prof. zav. 2 no.4:58-61 J1-Ag '58 (MIRA 11:9)
(OCCUPATIONAL DISEASES)
(LETAVET, A.A.)

GRATSIANSKAYA, Lyubov' Nikolayevna, doktor med. nauk; ROZENTSVIT,
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(NERVOUS SYSTEM—DISEASES) (INDUSTRIAL TOXICOLOGY)

GRATSIANSKAYA, L.N.

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1. Iz klinicheskogo otdela (rukovoditel' - prof. M.A.Kovnatkiy) Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy (dir. - prof. Z.E. Grigor'yev).
(OCCUPATIONAL THERAPY) (DISABILITY EVALUATION)

GRATSIANSKAYA, Lyubov Nikolayevna; GRINBERG, Aleksandr Veniaminovich;
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(HAND--DISEASES) (OCCUPATIONAL DISEASES)

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PA 17/107PO

USSR/Mathematics - Societies

Jul/Aug 48

"The Kiev City Mathematical Olympiad," L. M.
Gratsianskaya, 3 pp

"Uspekhi Matemat Nauk" Vol III, No 4 (26)

One hundred seventy-six students of the secondary schools in Kiev participated in the third postwar Olympiad, at the Kiev State University. Ten moderately difficult problems had to be solved by the students.

17/107PO

GRATSIANSKAYA, L. N.

USSR/Mathematics - Schools

Jan/Feb 51

"Olympiad of Junior Mathematicians in Kiev," L. N. Gratsianskaya

"Uspekhi Matemat Nauk" Vol VI, No 1 (41), pp 193-196

Lists 20 problems. Of the 255 students of IX-X classes /corr to junior college/ only 1 student worked all 5 problems assigned; 5 students solved 4 problems; 53, 3; 100, 2; and 96 solved only 1 problem. Similar figures hold for VII-VIII classes /freshmen/.

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1. GRATSYANSKAYA, L. N.
2. USSR (600)
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9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

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USSR/Mathematics - Olympiads, Societies May/Jun 52

"Mathematical School Circles in Kiev State University
Imeni T. G. Shevchenko, and the Mathematical
Olympiad," L. N. Gratsianskaya

"Uspekh Matemat Nauk" Vol VII, No 3 (49), pp 179-181

It has become customary on Sundays for the students of the secondary schools of Kiev to take part in the course of the school yr in the mathematical school circles of the university. On the 1st Sunday in Oct more than 200 young mathematicians went to the university to take part in the circles on their own initiative. Lectures were heard from Act Mem,

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USSR/Mathematics - Olympiads, Societies May/Jun 52
(Contd)

Acad Sci Ukrainian SSR B. V. Gnedenko, Prof A. G. Kurosh, Docent A. F. Bogorodskiy, and Docent P. I. Koval. Ten examples of problems are given which were submitted to the young mathematicians; the number of students successfully solving them is given for each problem (one was solved by no one).

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GRATSIANSKAYA, L.N.

Aleksandr Nikolaevich Stranneliubskii, 1839-1903. Nauk.zap.Kiev.
(MLRA 9:10)
un. 11 no.7:111-116 '52.
(Stranneliubskii, Aleksandr Nikolaevich, 1839-1903)(Bibliography--
Mathematics)(Bibliography--Stranneliubskii, Aleksandr Nikolaevich,
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Mathematical olympiad in Kiev. Usp.mat.nauk 8 no.5:199-201 S-0 '53.

(MIRA 6:10)

(Kiev--Mathematics) (Mathematics--Kiev)

GRATSIANSKAYA, L.N.

Olympiad for young mathematicians in Kiev. Usp.mat.nauk. 10
no.1:221-225 '55 (Kiev--Mathematics) (MIRA 8:6)

GRATSIANSKAYA, L.N.

Tenth mathematical olympiad at Kiev. Usp.mat.nauk 10 no.4:211-
213 '55. (MLRA 9:1)

(Kiev--Mathematics)

GRATSIANSKAYA, L.N. (Kiyev).

~~Mathematic contests and how they are conducted.~~ Mat.v shkole no.3:
23-26 My-Je '56. (MIRA 9:8)
(Mathematics--Competitions)

GRATSIANSKAYA, L.N. (Kiyev)

Some problems given in the Kiev municipal mathematics competi-
tions from 1946 to 1955. Mat.v shkole no.3:89-94 My-Je '56. (MLRA 9:8)

(Kiev--Mathematics--Problems, exercises, etc.)

GRATSIANSKAYA, L.N.

Vasilii Petrovich Ermakov. Ist.mat.issl. no.9:667-690 '56.
(MLRA 9:9)

(Ermakov, Vasilii Petrovich, 1845-1922)(Bibliography--Mathematics)

GRATSIANSKAYA, L.N.

GRATSIANSKAYA, L.N. (Kiyev)

Mikhail Egorovich (IUr'evich) Vashchenko-Zakharchenko; 1825-1912.
Mat.v shkole no.6:68-73 N-D '57. (MIRA 10-11)
(Vashchenko-Zakharchenko, Mikhail Egorovich, 1825-1912)

GRATSIANSKAYA, L.N.

Vasilii Petrovich Ermakov (1845-1922). Nauk.sop.Kyiv.un. 16
no.2:11-34 '57. (MIRA 11:11)
(Ermakov, Vasilii Petrovich, 1845-1922)

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AUTHOR: Gratsianskaya, L.M. SOV/41-11-3-16/16
TITLE: XVIth Scientific Session of the Kiev State University (Section Mathematics); Devoted to the XXIst Party Conference and to the 125 Years Existence of the University
PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 3, pp 339-340 (USSR)
ABSTRACT: The session took place on March 11-12, 1959. Lectures were given by: Docent V.P.Belousova, I.S.Bobyr', Engineer N.A.Tantayura, Professor G.N.Polozhiy, the senior scientific worker of the VTs AS USSR N.N.Moyseyev, Docent L.N.Gratsianskaya, Docent P.S. Bondarenko, Aspirant N.I.Tereshchenko, Engineer V.P.Chiznmakov, and Aspirant V.I.Grubov.
The author mentions the Professors G.V.Pfeyffer, D.A.Grave, G.K. Suslov, A.P.Kotel'nikov, B.Ya.Bukreyev, V.Ye.D'yachenko, A.D. Kovalenko, G.N.Polozhiy; Engineer Yu.S.Pavlenko, Academician M.A. Lavrent'yev; G.I.Sukhomel, and P.A.Dolgushin.
SUBMITTED: April 23, 1959

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USCOMM-DC-61,785

GRATSIANSKAYA, L. M.

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Popular notions in geometry in the Ukraine. Ist.-mat.zbir. 2:
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Some information on popular mathematics in the western regions of the Ukraine. Ist.-mat. zbir. 4:56-65 '63.
(MIRA 17:3)

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Quantitative determination of polymeric substances by means of
gas-liquid chromatography according to the internal standard.
Izv. AN Kazakh. SSR. Ser. khim. nauk 15 no.1:86-88 Ja-Mr '65.
(MIRA 18:12)

1. Submitted Nov. 11, 1964.